Gurunanak & Chandraketu Pandya English Medium School
Shri Rajanikant Vyas & Chandraketu Pandya English Medium Higher Secondary School
(Pre-Primary, Primary, Secondary & Higher Secondary - Science and Commerce Stream)
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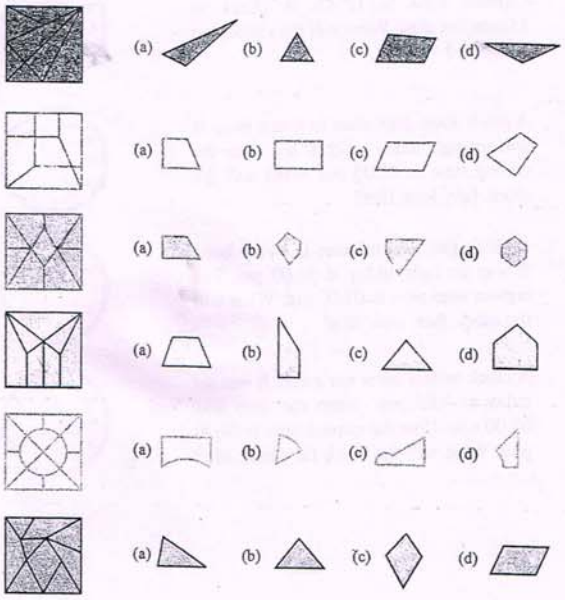
Std 4 sub Aptitude F A 3 chap. 12,13,14,15 date M

S.A.II

12 EMBEDDED FIGURES

A figure X is said to be embedded in figure Y, if figure Y contains figure X as its parts.

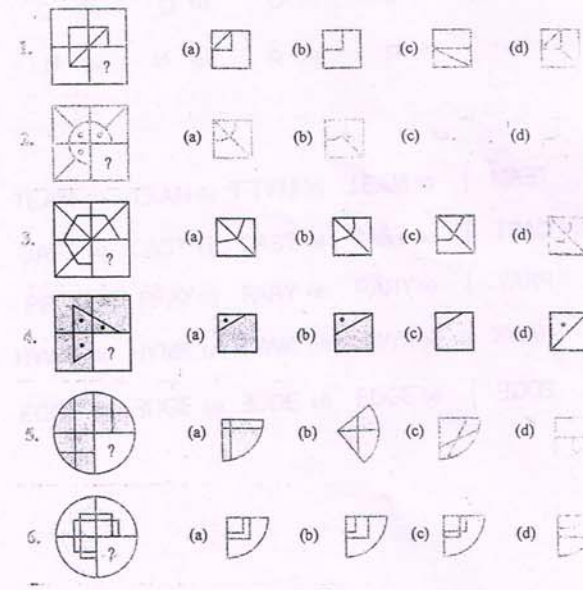
In each of the following, tick (✓) the figure which is embedded in th given figure.



13 COMPLETING FIGURES

Here an incomplete figure is given in which a part (generally a quar is left blank. The candidate has to select the answer from the opti which fits into the blank space so that the main figure gets complet

Find the figure from the options which replaces the question m the given figure.



S.A II

14 MIRROR IMAGES

The image of an object as seen in a mirror is called its mirror image

B	(a) ꓭ	(b) B	(c) ᗺ	(d) ᗷ
F	(a) ꟻ	(b) ꟻ	(c) F	(d) ꟻ
L	(a) L	(b) ⅂	(c) ⅃	(d) ⅂
Q	(a) Ꝺ	(b) Ꝺ	(c) Q	(d) Ꝺ
R	(a) R	(b) Я	(c) Я	(d) Я

TEAM	(a) MAƎ⊥	(b) M∀ET	(c) MAET	(d) MAƎT
CAST	(a) TSAↃ	(b) TSAC	(c) TSAↃ	(d) ⊥SAC
PRAY	(a) YRAꟼ	(b) YRAꟼ	(c) YAꟼꟼ	(d) YARꟼ
HAWK	(a) KWAH	(b) ꓘWAH	(c) ꓘM∀H	(d) ꓘW∀H
EDGE	(a) ƎDGƎ	(b) ƎGDE	(c) ƎGDE	(d) ƎGDƎ

15 CLOCKS

Correct time is 02:00. A clock is 5 minutes fast. What will the clock face look like?

Correct time is 12:45. A clock is 15 minutes slow. What will the clock face look like?

A clock loses 3 minutes in every hour. It was set right today at 05:00 am. Now the correct time is 10:00 am. What will the clock face look like?

A clock gains 10 minutes in every hour. It was set right today at 01:00 pm. The correct time now is 07:00 pm. What will the clock face look like?

A clock neither loses nor gains. It was set today to 7:05 a.m. when the time was 07:00 a.m. Now the correct time is 01:20 p.m. What will the clock face look like?

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STD: 4 F.A-4 Assignment Chap-16,17,18,19
SUB: Aptitude S.A-II

1. Mohit, Sumit and Karan are cousins. Mohit is 10 years old. Sumit is 2 years older than him. Karan is 1 year older than Sumit. How old is Karan? ____ years

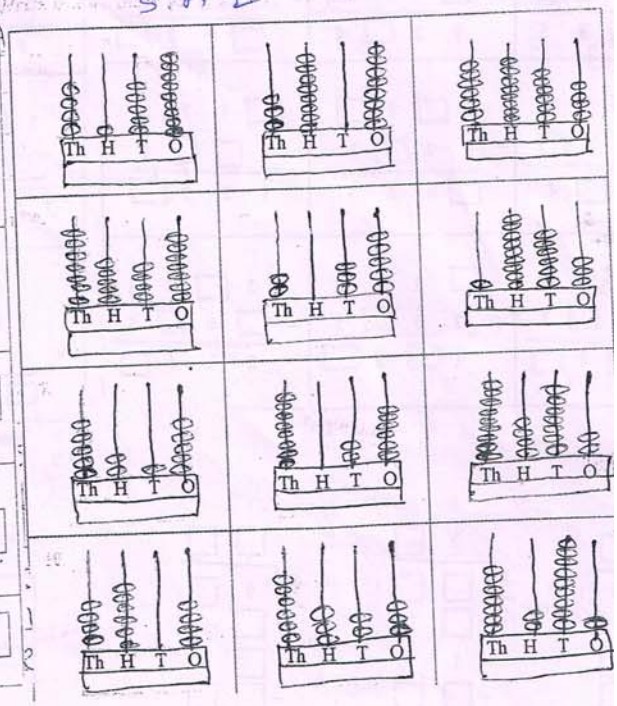
2. Sujata, Kareena and Juhi are members of a club. Juhi is 30 years old. Sujata is 5 years younger than Juhi and Kareena is 1 year younger than Sujata. How old is Kareena? ____ years

3. Mr. Lal, Mr. Sen and Mr. Sharma are teachers in a school. Mr. Lal is 40 years old. Mr. Sharma is 2 years younger than him. Mr. Sen is 5 years elder than Mr. Sharma. How old is Mr. Sen? ____ years

4. Sumit, Kapil and Jagjit are members of a cricket team. Kapil is 28 years old. Sumit is 2 years older than him. Jagjit is 5 years younger than Sumit? How old is Jagjit? ____ years

5. Arpit is 7 years old. Mr. Jagan is father of Arpit. Mr. Jagan is five times as old as Arpit. How old is Mr. Jagan? ____ years

6. Romilla and Jyoti are cousins. Jyoti is 5 years old. Age of Romilla is one year more than two times Jyoti's age. How old is Romilla? ____ years



atest and Smallest Numbers-1

5 and 8 eatest Th H T O allest Th H T O	3, 5, 4 and 8 Greatest Th H T O Smallest Th H T O	7, 3, 2 and 8 Greatest Th H T O Smallest Th H T O
6, 5, 4 and 8 eatest Th H T O nallest Th H T O	7, 2, 1 and 5] Greatest Th H T O Smallest Th H T O	5, 4, 9 and 3 Greatest Th H T O Smallest Th H T O
6, 2, 4 and 8 reatest Th H T O nallest Th H T O	1, 3, 7 and 9 Greatest Th H T O Smallest Th H T O	2, 5, 9 and 7 Greatest Th H T O Smallest Th H T O
1, 8, 3 and 9 reatest Th H T O mallest	2, 1, 7 and 8 Greatest Th H T O Smallest	4, 5, 6 and 2 Greatest Th H T O Smallest

Greatest and Smallest Numbers-2

Make the greatest and smallest ... digits. Repeating is not allowed.

5, 2, 0 and 8 Greatest Th H T O Smallest Th H T O	3, 0, 4 and 8 Greatest Th H T O Smallest Th H T O	7, 3, 2 Greatest Th H Smallest Th H
6, 5, 0 and 8 Greatest Th H T O Smallest Th H T O	7, 2, 0 and 5 Greatest Th H T O Smallest Th H T O	5, 4, Greatest Th Smallest Th
6, 0, 4 and 8 Greatest Th H T O Smallest Th H T O	1, 3, 0 and 9 Greatest Th H T O Smallest Th H T O	2, 5, Greatest Th Smallest Th
1, 0, 3 and 9 Greatest Th H T O Smallest Th H T O	0, 1, 7 and 8 Greatest Th H T O Smallest Th H T O	4, 0 Greatest Th Smalles Th

□ 1 □ 3 + 2 7 6 □ 6 □ 8 7	2 1 9 □ + □ □ 0 5 5 3 □ 8	2 □ 8 6 + 6 8 □ 3 □ 9 8 □
□ 4 7 □ + 3 2 □ 9 5 □ 3 5	7 □ 3 4 + □ 9 8 □ 9 2 □ 0	2 1 □ 7 + 5 □ 9 4 □ 0 3 □
5 □ 2 9 − □ 4 1 □ 3 2 □ 4	8 □ 7 □ − 1 3 □ 1 □ 6 2 3	□ 4 7 3 − 5 □ □ 0 1 2 7 □
9 6 4 7 − □ 2 □ 5 6 □ 8 □	□ 2 7 0 − 7 0 □ 3 1 □ 5 □	5 □ 3 1 − □ 6 □ 5 2 1 5 □

2 □ 4 × 2 □ 6 □	□ 3 □ × 3 3 □ 6	□ 0 2 × □ 4 0 8
□ 5 6 × 2 5 □ □	1 □ 3 6 × □ 7 □ 8	2 1 8 □ × 4 0
3 □ 0 4 × 2 □ 4 □ □	1 2 □ □ × 3 □ □ 9 6	□ □ 1 2 × □ 4 0 □ 8
1 □ 2 6 × 5 □ 1 □ □	□ 4 3 1 × □ 9 □ □ 4	1 □ 5 9 □ × 6 9 □ □ 8

Division

Apply the division rules.

1 □ 2) 3 2 − □ □ □ − □ □ □ □ Q = ____ R = ____	2 □ 3) □ □ − □ 1 5 − □ □ □ □ Q = ____ R = ____	□ □ 4) 9 □ − □ □ 9 − □ □ □ □ Q = ____ R = ____
1 3) 4 □ □ − □ □ 6 − □ □ □ 2 − □ □ □ □ Q = ____ R = ____	2 □ □ 4) □ □ 9 − □ 1 9 − □ □ □ □ − □ □ □ □ Q = ____ R = ____	1 □ 3 □) 7 □ 5 − 5 □ 6 − □ □ □ □ − □ □ □ □ Q = ____ R = ____

Mathematical Operations with Changed Symbols

*** Means '+' (add); ⊕ means '–' (subtract); △ means '×' (multiply); # means '÷' (divide)**

212 * 715 =	999 ⊕ 231 =
132 △ 6 =	272 # 2 =
316 * 408 =	735 ⊕ 115 =
128 △ 5 =	693 # 3 =
125 * 206 * 402 =	* 402 =
932 ⊕ 206 ⊕ 407 =	⊕ 407 =
112 △ 2 △ 3 =	△ 3 =
996 # 3 # 2 =	# 2 =

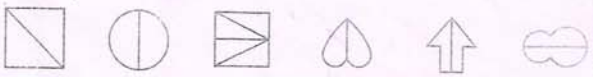
Find the products without actually multiplying.

1. 5 × 300 = ____
2. 4 × 600 = ____
3. 7 × 900 = ____
4. 6 × 500 = ____
5. 9 × 300 = ____
6. 8 × 700 = ____
7. 3 × 800 = ____
8. 3 × 200 = ____
9. 6 × 400 = ____
10. 8 × 800 = ____
11. 5 × 700 = ____
12. 2 × 500 = ____
13. 14 × 300 = ____
14. 12 × 600 = ____
15. 11 × 800 = ____
16. 20 × 700 = ____
17. 15 × 800 = ____
18. 25 × 300 = ____
19. 16 × 500 = ____
20. 14 × 700 = ____
21. 16 × 400 = ____
22. 20 × 300 = ____
23. 40 × 600 = ____
24. 251 × 100 = ____

19 FRACTIONS

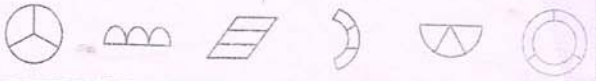
Fractions - 1

1. Shade $\frac{1}{2}$ of each.

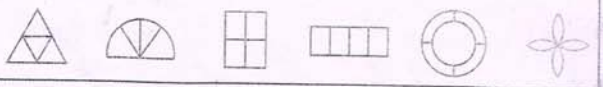


2. Shade $\frac{1}{3}$ of each.

3. Shade $\frac{2}{3}$ of each.



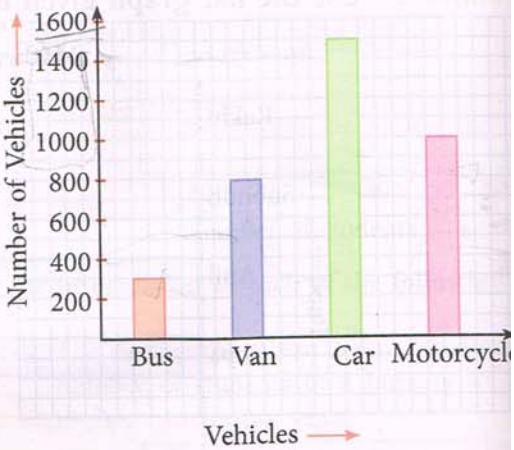
4. Shade $\frac{1}{4}$ of each.



5. Shade $\frac{3}{4}$ of each.

EXERCISE 16B

1. **The number of different types of vehicles travelling along a certain road on a certain day w recorded and shown on the graph below. Study the graph and answer the questions that follo**



(a) The smallest number of vehicles that travelled along the road were ☐.

(b) ☐ fewer buses than cars travelled along the road.

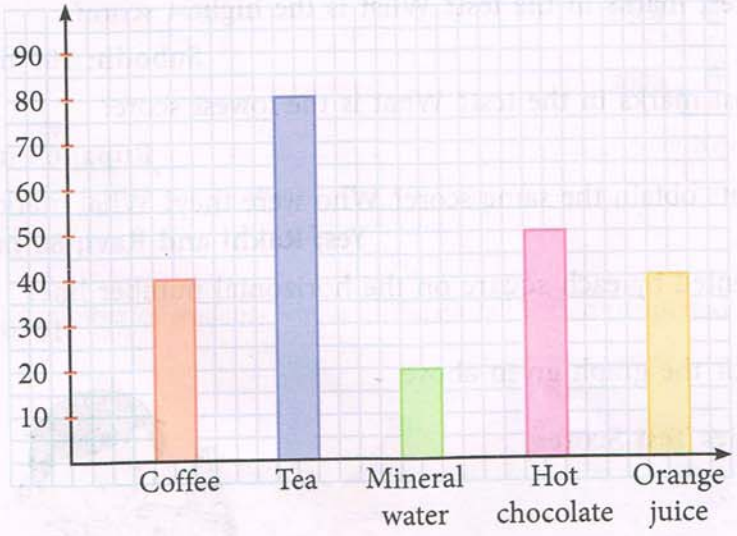
(c) Most of the vehicles that travelled along the road were ☐.

(d) The total number of vans and motorcycles that travelled along the road was ☐.

(e) Altogether, ☐ vehicles travelled along the road on that day.

2. **Study the bar graph given below and answer the questions that follow.**

Drinks Bought at Riverside High School Canteen



(a) Which drink was the most popular?

(b) How many of each type of drink were bought?

(c) How many drinks were bought altogether?

(d) Which drinks were twice as popular as mineral water?

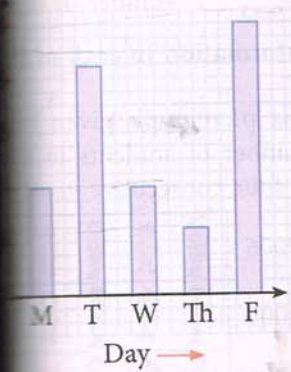
m the above bar graph, the names of the garments are along the horizontal
e number of garments are along the vertical axis.

idth of the bars and the distance between them should be kept the same.

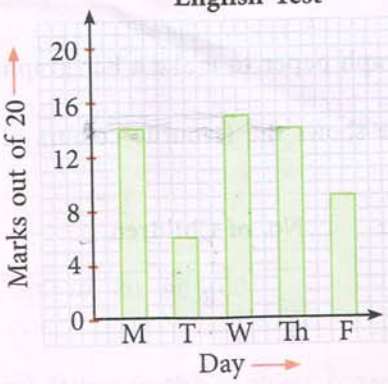
EXERCISE 16A

arts below show a student's marks in different Maths and English tests given on
f the same week.

Maths Test



English Test



e tables with marks secured by the student in each subject.

Maths Test

Mon	Tues	Wed	Thu	Fri

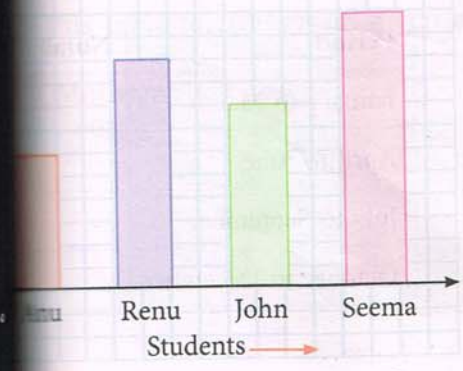
English Test

Days	Mon	Tues	Wed	Thu	Fri
Marks					

ach table by using the corresponding bar graph.

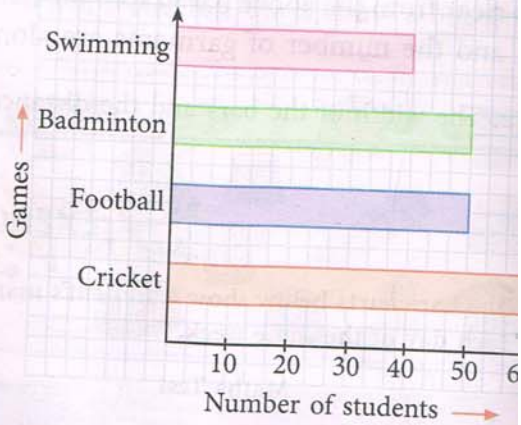
Student	Anu	Renu	John	Seema
Tickets				

Tickets Sold for the School Play



3.

Game	Number of Students
Cricket	
Football	
Badminton	
Swimming	



Use a graph paper to make a bar graph using the information in each of the following

4. The table shows the favourite colours of children.

Colour	No. of Children
Red	8
Blue	3
Pink	5
Green	7
Yellow	6

5. The pictograph given below shows number of students in a nursery sch in four consecutive years.

Key: stands for 20 girls

stands for 10 boys

6. The number of students whose birthdays fall within the period indicated.

Period	Number of Birthdays
January to March	27
April to June	35
July to September	18
October to December	52

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Std. 4th S.A. II

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Find the missing numbers in the following number patterns. Also write the rule for each pattern.

1. 243, 81, 27, _____, _____, 1. *Rule* _____
2. 96, 48, _____, _____, 6, 3. *Rule* _____
3. 2048, 512, 128, _____, 8, _____. *Rule* _____
4. 1875, 375, _____, 15, _____. *Rule* _____
5. 486, 162, 54, _____, _____, _____. *Rule* _____
6. 6400, 3200, 1600, _____, _____, _____. *Rule* _____
7. 2, 5, 10, 13, 26, 29, 58, _____, _____. *Rule* _____
   +3 ×2 +3 ×2
8. 10, 8, 24, 22, 66, 64, 192, _____, _____. *Rule* _____
9. 25, 20, 200, 195, 1950, _____, _____. *Rule* _____
10. 7, 10, 40, 43, 172, _____, _____. *Rule* _____

Find the missing numbers in the following number patterns. Also write the rule for each pattern.

1. 1, 2, 4, 8, 16, _____, _____, _____, _____. *Rule* _____
2. 1, 3, 9, _____, _____, _____, _____. *Rule* _____
3. 4, 16, _____, _____, _____, 4096. *Rule* _____
4. 1, 5, 25, _____, _____, 3125. *Rule* _____
5. 1, 7, 49, _____, 2401, _____. *Rule* _____
6. 5, 20, 80, _____, _____. *Rule* _____
7. 2, 6, 18, _____, 162, _____. *Rule* _____
8. 1, 10, 100, _____, _____, _____. *Rule* _____

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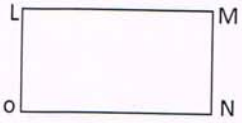
S.A.

STD:4 F.A.-3 Assignment Chap: 9,10,11, Total Marks:90

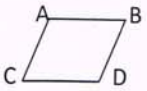
Sub: MATHS

Q-1 Short type questions: (50)

1)Convert into centimeter: 5 m,
2)Convert into centimeter: 7 m 63 cm.
3)Convert into centimeter: 35 m 12 cm.
4)Convert into metres: 3 Km 56 m
5)Convert into metres:18 km,
6)Convert into millimetres: 16cm
7)Express in milliliters: 10 l
8)Express in milliliters: 8 l 273 ml
9)Express in litres & milliliters: 7000 ml
10)Express in litres & milliliters:6075 ml
11)Show the time in the clock: 4:00
12)Show the time in the clock: Quarter past noon
13)Show the time in the clock: Twenty minutes past mid night.
14)Name the vertices,sides and diagonals :



15)Name the vertices,sides and diagonals:



16)How many days are there in 4 weeks:
17)How many months are there in 3 years 4 months
18)How many days are there in 5 weeks 6 days.
19)How many months are there in 5 years.
20)Use compasses to draw a circle of radius as 5 cm.
21)Use compasses to draw a circle of radius as 4 cm.
22)Use compasses to draw a circle of radius as 2 cm.
23)What is the radius of the circle whose diameter is 10 cm.
24)What is the radius of the circle whose diameter is 18 cm.
25)What is the radius of the circle whose diameter is 8 cm.

Q-2 Long type questions: (40)

1)A contractor got a contract for construction of three roads. The length of the first road is 130 Km 750 m, the second road is 98 Km 411 m and the third road is 203 Km 42 m. Find the total length of the three roads that he needs to construct.
2)Raju purchased 22 m 35 cm cloth for shirts,31 m 16 cm for trousers and 1 m 34 cm for other purpose. How many metres of cloth did he purchase in all?
3)Mahesh took 5 m 87 cm coloured paper from the class teacher. He used 2 m 93 cm of it in making flags and returned the rest to the class teacher. How much paper was returned.
4)Ravi purchased a box containg 15 Kg of apples. If 1 Kg 450 g of apples were found spoiled and 8 Kg 780 g were consumed in a party,how much apples were left?
5)Bag A contain 48 Kg 600 g of rice and Bag B contains 37 Kg 760 g of rice. Which bag contains more rice and by how much?
6)Mrs. Khanna `s car holds 43 L 570 ml of petrol. Her husband`s car holds 63 L 450 ml of petrol. How much petrol they must buy to fill both the cars if both are empty?

S. A. II

7) A farmer`s herd of cows produced 212 L 235 ml of milk. If he has 85 L 450 ml left, how much did he sell?

8)How many minutes are there from 8:10 a.m. to 8:30 a.m.

9)How many minutes are there from 4:35 p.m. to 4:50 p.m.

10)How many hours and minutes are there from 7:2 a.m. to 10:10 a.m.

11)How many hours and minutes are there from:10:50 a.m. to 12:05 p.m.

12)What time will be 4 hours after 7:45 p.m.

13)What time will be 4 hours after 12 noon.

14)What time was it 5 hours before 12 mid-night.

15)What time was it 5 hours before 6:00 p.m.

16)How many days are there from the Independence Day to Christmas.?

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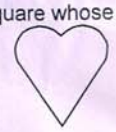
F.A.-4 STD 4 Sub: MATHS Chap:12,13,14,15 S.A II

Q-1 show type questions 50 marks

5. Determine the parameter of the triangle whose sides are 5 centimetre 4 centimetres 6 centimetre
6. Determine the parameter of the triangle whose sides are 34 centimetre 41 centimetres 39 centimetre
7. Determine the parameter of the rectangle whose length is 3 centimetre and breath is 2 centimetre
8. Determine the parameter of the square of side is 2 centimetre
9. Determine the perimeter of the square feet is 5 centimetre
10. determine the perimeter of the rectangle whose length is 12 metre and breath is 10 metre
11. Find the breadth if parameter is 80 centimetre and length is 28 centimetre
12. Find the length of the perimeter is 230 centimetre and breadth is 50 centimetre
13. What is the length of the side of a square whose perimeter is 36 centimetre
14. What is the length of the side of a square whose perimeter is 92 centimetre
15. Find the area of the square whose one side measures is 7 centimetre
16. Find the area of the square whose one side is 9 centimetres
17. Find the area of the rectangle of dams dimensions 35 centimetre by 20 centimetre
18. Find the area of the rectangle of dimensions 60 centimetre by 35 centimetres
19. Find the length of the rectangle if area is 56 centimetres square and rate 8 centimetre
20. Find the breadth of the rectangle if area is 216 centimetres square and length is 36 centimetres
21. Draw symmetry lines in A
22. Draw symmetry lines in E
23. Draw symmetry lines in H
24. Draw symmetry lines in square

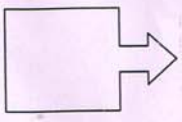
Q-2 long type questions (40)

2. Find the parameter of a triangle whose sides are equal and measure 7 centimetre each.
3. Two sides of a triangle are equal and measure 4 centimetre is if the perimeter of the triangle is 13 centimetre find the third side
4. The perimeter of a rectangle is 46 centimetre the length of the rectangle is 13 centimetre what is its breadth?
5. The perimeter of a rectangle is 30 centimetres The Breath of the rectangle is 9 centimetre what is its length
6. What is the length of the side of a square whose perimeter is 48 centimetres
7. Draw the symmetry lines in



8. Draw the symmetry lines in

9. Draw the symmetry lines in



10. Find the area of a rectangle with length 8 cm and breadth 6 cm.

11. Find the length of a rectangle whose area is 27.52 cm and breadth is 8 cm.

S.A.II

12. **Draw the line or lines of symmetry.**

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

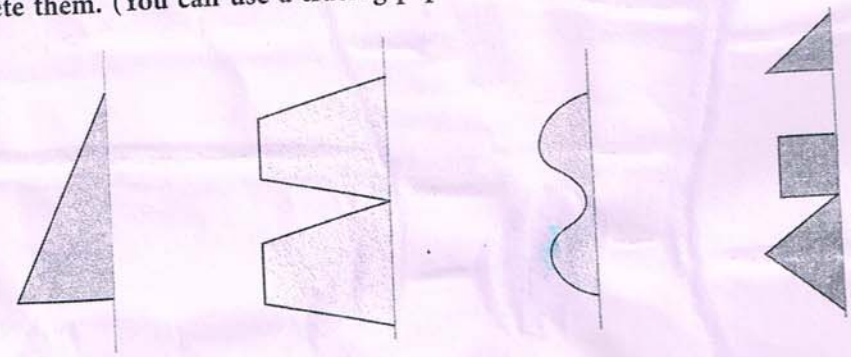
(i)

(j)

(k)

(l)

13. **These are half shapes with a line of symmetry. Copy these shapes in your note book and complete them. (You can use a tracing paper to trace them.)**



14. **Are the following flags symmetrical? If yes, then draw the line/lines of symmetry.**

(a)

Indian Flag

(b)

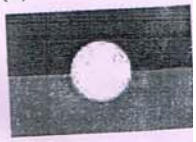
Canadian Flag

(c)

Australian Flag

(d)

American Flag

(e) 

Australian Aboriginal